

## Refine Search

### Search Results -

| Term  | Documents |
|---|-----------|
| GEOTAXIS  | 24        |
| GEOTAXI   | 0         |
| ASSAY   | 213005    |
| ASSAYS  | 141067    |
| ((GEOTAXIS ADJ ASSAY) AND<br>3).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.   | 4         |
| (L3 AND (GEOTAXIS ADJ<br>ASSAY) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD. | 4         |

Database:

US, Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L8

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Wednesday, September 21, 2005    [Printable Copy](#)    [Create Case](#)

Set  
Name   Query  
 side by  
 side

Hit  
Count   Set  
             Name  
             result  
             set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES;  
 OP=AND

|           |   |    |           |
|-----------|---|----|-----------|
| <u>L8</u> | L3 and (geotaxis adj assay)   | 4  | <u>L8</u> |
| <u>L7</u> | L6 and (geotaxis adj assay)   | 0  | <u>L7</u> |
| <u>L6</u> | L4 not L5   | 30 | <u>L6</u> |
| <u>L5</u> | L4 and (epigenetic or epigenetically or inheritable or inheritably) | 6  | <u>L5</u> |
| <u>L4</u> | L3 and (F1 and F2)  | 36 | <u>L4</u> |

|           |   |       |           |
|-----------|---|-------|-----------|
| <u>L3</u> | L2 and ((neuroactive adj drug) or psychostimulant or cocaine or nicotine or strychnine or pentylenetetrazol or tetraethylammonium or (lithium adj carbonate)) | 772   | <u>L3</u> |
| <u>L2</u> | (Drosophila) or (fruit adj (flies or fly))  | 20825 | <u>L2</u> |
| <u>L1</u> | Sharma-Abhay.in.  | 9     | <u>L1</u> |

END OF SEARCH HISTORY



Day : Wednesday

Date: 9/21/2005

Time: 14:25:23

## Inventor Name Search

Enter the **first few letters** of the Inventor's Last Name.  
Additionally, enter the **first few letters** of the Inventor's First name.

**Last Name****First Name**

To go back use Back button on your browser toolbar.

Back to [PALM](#) | [ASSIGNMENT](#) | [OASIS](#) | [Home page](#)

## Welcome to DialogClassic Web(tm)

Dialog level 05.06.01D  
Last logoff: 19sep05 13:38:04  
Logon file001 21sep05 13:46:32

## \*\*\* ANNOUNCEMENT \*\*\*

\*\*\*

--UPDATED: Important Notice to Freelance Authors--  
See HELP FREELANCE for more information

\*\*\*

## NEW FILES RELEASED

\*\*\*Computer and Information Systems Abstracts (File 56)  
\*\*\*Electronics and Communicationss Abstracts (File 57)  
\*\*\*Solid State and Superconductivity Abstracts (File 68)  
\*\*\*ANTE: Abstracts in New Technologies (File 60)  
\*\*\*Civil Engineering Abstracts (File 61)  
\*\*\*Aluminium Industry Abstracts (File 33)  
\*\*\*Ceramic Abstracts/World Ceramic Abstracts (File 335)  
\*\*\*CSA Life Sciences Abstracts (File 24)  
\*\*\*Corrosion Abstracts (File 46)  
\*\*\*Materials Business File (File 269)  
\*\*\*Engineered Materials Abstracts (File 293)  
\*\*\*CSA Aerospace & High Technology Database (File 108)  
\*\*\*CSA Technology Research Database (File 23)  
\*\*\*METADEX(r) (File 32)  
\*\*\*FDAnews (File 182)  
\*\*\*German Patents Fulltext (File 324) \*\*\*  
RESUMED UPDATING  
\*\*\*Canadian Business and Current Affairs (262)  
\*\*\*CorpTech (559)

\*\*\*

Chemical Structure Searching now available in Prous Science Drugs  
of the Future (F453), IMS R&D Focus (F445), Beilstein Facts (F390),  
and Derwent Chemistry Resource (F355).

\*\*\*

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<  
>>> of new databases, price changes, etc. <<<

\*\*\*\*

KWIC is set to 50.  
HIGHLIGHT set on as ' '

\* \* \*

File 1:ERIC 1966-2004/Jul 21  
(c) format only 2004 Dialog  
\*File 1: Updates suspended until Q4 2005.

| Set | Items | Description |
|-----|-------|-------------|
| --- | ----- | -----       |

Cost is in DialUnits  
?

B 155, 159, 5, 73  
21sep05 13:46:54 User259876 Session D800.1  
\$0.80 0.228 DialUnits File1  
\$0.80 Estimated cost File1  
\$0.10 INTERNET  
\$0.90 Estimated cost this search  
\$0.90 Estimated total session cost 0.228 DialUnits

SYSTEM:OS - DIALOG OneSearch  
File 155:MEDLINE(R) 1951-2005/Sep 21

(c) format only 2005 Dialog

File 159:Cancerlit 1975-2002/Oct

(c) format only 2002 Dialog

**\*File 159: Cancerlit is no longer updating.**

Please see HELP NEWS159.

File 5:Biosis Previews(R) 1969-2005/Sep W3

(c) 2005 BIOSIS

File 73:EMBASE 1974-2005/Sep 21

(c) 2005 Elsevier Science B.V.

| Set | Items | Description |
|-----|-------|-------------|
|-----|-------|-------------|

| --- | ----- | ----- |
|-----|-------|-------|
|-----|-------|-------|

?

S (DROSOPHILA) OR (FRUIT (W) (FLY OR FLIES))

165183 DROSOPHILA

123338 FRUIT

50935 FLY

37534 FLIES

7911 FRUIT(W) (FLY OR FLIES)

S1 169845 (DROSOPHILA) OR (FRUIT (W) (FLY OR FLIES))

?

S S1 AND ((NEUROACTIVE (W) DRUG) OR PSYCHOSTIMULANT OR COCAINE OR NICOTINE OR STRYCH OR (LITHIUM (W) CARBONATE))

Processing

169845 S1

6045 NEUROACTIVE

9165489 DRUG

62 NEUROACTIVE (W) DRUG

5762 PSYCHOSTIMULANT

77456 COCAINE

64944 NICOTINE

14989 STRYCHNINE

5485 PENTYLENETETRAZOL

18341 TETRAETHYLAMMONIUM

88370 LITHIUM

65378 CARBONATE

10666 LITHIUM (W) CARBONATE

S2 399 S1 AND ((NEUROACTIVE (W) DRUG) OR PSYCHOSTIMULANT OR COCAINE OR NICOTINE OR STRYCHNINE OR PENTYLENETETRAZOL OR TETRAETHYLAMMONIUM OR (LITHIUM (W) CARBONATE))

?

S S2 AND (GEOTAXIS OR GEOTATIC)

399 S2

848 GEOTAXIS

0 GEOTATIC

S3 3 S2 AND (GEOTAXIS OR GEOTATIC)

?

RD

...completed examining records

S4 2 RD (unique items)

?

T S4/3,K/ALL

4/3,K/1 (Item 1 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2005 Dialog. All rts. reserv.

12776794 PMID: 10704411

**Dopamine modulates acute responses to cocaine , nicotine and ethanol in Drosophila .**

Bainton R J; Tsai L T; Singh C M; Moore M S; Neckameyer W S; Heberlein U  
Department of Anesthesia, University of California San Francisco,  
California 94143-0452, USA.

Current biology - CB (ENGLAND) Feb 24 2000, 10 (4) p187-94, ISSN  
0960-9822 Journal Code: 9107782

Contract/Grant No.: AA10035; AA; NIAAA; GM08440; GM; NIGMS

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

**Dopamine modulates acute responses to cocaine , nicotine and ethanol in Drosophila .**

... mechanisms by which dopamine regulates acute drug responses and addiction remain unknown. RESULTS: We present evidence that dopamine plays a role in the responses of **Drosophila** to **cocaine** , **nicotine** or ethanol. We used a startle-induced negative **geotaxis** assay and a locomotor tracking system to measure the effect of psychostimulants on fly behavior. Using these assays, we show that acute responses to **cocaine** and

**nicotine** are blunted by pharmacologically induced reductions in dopamine levels. **Cocaine** and **nicotine** showed a high degree of synergy in their effects, which is consistent with an action through convergent pathways. In addition, we found that dopamine is involved in the acute locomotor-activating effect, but not the sedating effect, of ethanol. CONCLUSIONS: We show that in **Drosophila** , as in mammals, dopaminergic pathways play a role in modulating specific behavioral responses to **cocaine** , **nicotine** or ethanol. We therefore suggest that **Drosophila** can be used as a genetically tractable model system in which to study the mechanisms underlying behavioral responses to multiple drugs of abuse.

Descriptors: \***Cocaine** --metabolism--ME; \*Dopamine--metabolism--ME; \*Ethanol--metabolism--ME; \* **Nicotine** --metabolism--ME; Animals; Behavior, Animal; Dopamine--physiology--PH; **Drosophila** --metabolism--ME

Chemical Name: **Cocaine** ; Dopamine; **Nicotine** ; Ethanol

4/3,K/2 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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0013247939 BIOSIS NO.: 200100419778

**Studying drug abuse in Drosophila**

AUTHOR: Wolf Fred (Reprint); Rodan Aylin; Heberlein Ulrike (Reprint)

AUTHOR ADDRESS: Dept. Anatomy, University of California San Francisco, San Francisco, CA, USA\*\*USA

JOURNAL: Development Growth and Differentiation 43 (Supplement): pS27  
July, 2001 2001

MEDIUM: print

CONFERENCE/MEETING: 14th International Congress of Developmental biology  
Kyoto, Japan July 08-12, 2001; 20010708

SPONSOR: International Society of Developmental Biology  
Japanese Society of Developmental Biologists

ISSN: 0012-1592

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Citation

LANGUAGE: English

**Studying drug abuse in Drosophila**  
 ...REGISTRY NUMBERS: **cocaine** ; ...

... **nicotine**

DESCRIPTORS:

ORGANISMS: **Drosophila** (Diptera)

CHEMICALS & BIOCHEMICALS: **cocaine** --...

... **nicotine** --

MISCELLANEOUS TERMS: ... **geotaxis** ;

?

| Set | Items  | Description   |
|-----|--------|---|
| S1  | 169845 | (DROSOPHILA) OR (FRUIT (W) (FLY OR FLIES))  |
| S2  | 399    | S1 AND ((NEUROACTIVE (W) DRUG) OR PSYCHOSTIMULANT OR COCAINE OR NICOTINE OR STRYCHNINE OR PENTYLENETETRAZOL OR TETRAETHYLAMMONIUM OR (LITHIUM (W) CARBONATE)) |
| S3  | 3      | S2 AND (GEOTAXIS OR GEOTATIC)   |
| S4  | 2      | RD (unique items)   |

?

S S2 AND (EPIGENETIC OR EPIGENETICALLY OR INHERITABLE OR INHERITABLY)

|    |       |   |
|----|-------|---|
|    | 399   | S2  |
|    | 17219 | EPIGENETIC  |
|    | 968   | EPIGENETICALLY  |
|    | 1587  | INHERITABLE   |
|    | 12    | INHERITABLY   |
| S5 | 0     | S2 AND (EPIGENETIC OR EPIGENETICALLY OR INHERITABLE OR INHERITABLY) |

?

S S2 AND ((PARENT OR GRAND) (W) PROGENIES)

|    |        |  |
|----|--------|--|
|    | 399    | S2                                       |
|    | 195453 | PARENT                                   |
|    | 17842  | GRAND                                    |
|    | 8007   | PROGENIES                                |
|    | 2      | (PARENT OR GRAND) (W) PROGENIES          |
| S6 | 0      | S2 AND ((PARENT OR GRAND) (W) PROGENIES) |

?

S (BEHAVIOR OR LOCOMOTOR) (S) (ALTERED OR CHANGE)

|    |         |   |
|----|---------|---|
|    | 1833986 | BEHAVIOR  |
|    | 55609   | LOCOMOTOR                                       |
|    | 503700  | ALTERED   |
|    | 1276397 | CHANGE  |
| S7 | 56040   | (BEHAVIOR OR LOCOMOTOR) (S) (ALTERED OR CHANGE) |

?

S S7 AND S2

|    |       |           |
|----|-------|-----------|
|    | 56040 | S7        |
|    | 399   | S2        |
| S8 | 8     | S7 AND S2 |

?

RD

...completed examining records

|    |   |                   |
|----|---|-------------------|
| S9 | 3 | RD (unique items) |
|----|---|-------------------|

?

T S9/3,K/ALL

9/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

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16337865 PMID: 15550987

**Lmo mutants reveal a novel role for circadian pacemaker neurons in cocaine -induced behaviors.**

Tsai Linus T-Y; Bainton Roland J; Blau Justin; Heberlein Ulrike

Department of Anatomy, Program in Neuroscience and Medical Science Training Program, University of California, San Francisco, USA.

PLoS biology (United States) Dec 2004, 2 (12) pe408, ISSN 1545-7885  
Journal Code: 101183755

Contract/Grant No.: KO8 DA 444906 33821; DA; NIDA; R01 AA 10035; AA; NIAAA; R01 AA 13105; AA; NIAAA; R21 DA14809; DA; NIDA

Publishing Model Print-Electronic

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: In Process

**Lmo mutants reveal a novel role for circadian pacemaker neurons in cocaine -induced behaviors.**

**Drosophila** has been developed recently as a model system to investigate the molecular and neural mechanisms underlying responses to drugs of abuse. Genetic screens for mutants with **altered** drug-induced behaviors thus provide an unbiased approach to define novel molecules involved in the process. We identified mutations in the **Drosophila** LIM-only (LMO) gene, encoding a regulator of LIM-homeodomain proteins, in a genetic screen for mutants with **altered cocaine** sensitivity. Reduced Lmo function increases behavioral responses to **cocaine**, while Lmo overexpression causes the opposite effect, reduced **cocaine** responsiveness. Expression of Lmo in the principal **Drosophila** circadian pacemaker cells, the PDF-expressing ventral lateral neurons (LN(v)s), is sufficient to confer normal **cocaine** sensitivity. Consistent with a role for Lmo in LN(v) function, Lmo mutants also show defects in circadian rhythms of

**behavior**. However, the role for LN(v)s in modulating **cocaine** responses is separable from their role as pacemaker neurons: ablation or functional silencing of the LN(v)s reduces **cocaine** sensitivity, while loss of the principal circadian neurotransmitter PDF has no effect. Together, these results reveal a novel role for Lmo in modulating acute **cocaine** sensitivity and circadian **locomotor** rhythmicity, and add to growing evidence that these behaviors are regulated by shared molecular mechanisms. The finding that the degree of **cocaine** responsiveness is controlled by the **Drosophila** pacemaker neurons provides a neuroanatomical basis for this overlap. We propose that Lmo controls the responsiveness of LN(v)s to **cocaine**, which in turn regulate the flies' behavioral sensitivity to the drug.

9/3,K/2 (Item 2 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

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14537540 PMID: 12490253

**Drugs, flies, and videotape: the effects of ethanol and cocaine on Drosophila locomotion.**



Rothenfluh Adrian; Heberlein Ulrike  
Department of Anatomy, University of California at San Francisco, 513  
Parnassus Avenue, 94143-0452, USA. adrianr@itsa.ucsf.edu  
Current opinion in neurobiology (England) Dec 2002, 12 (6) p639-45,  
ISSN 0959-4388 Journal Code: 9111376  
Publishing Model Print  
Document type: Journal Article; Review; Review, Tutorial  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: MEDLINE; Completed

**Drugs, flies, and videotape: the effects of ethanol and cocaine on  
Drosophila locomotion.**

**Drosophila** melanogaster has been introduced recently as a model organism in which to study the mechanisms by which drugs of abuse **change behavior** and by which the nervous system changes upon repeated drug exposure. Surprising similarities between flies and mammals have begun to emerge at the behavioral, neurochemical...

Descriptors: \***Cocaine** --pharmacology--PD; \*Ethanol--pharmacology--PD;  
\*Locomotion--drug effects--DE; Animals; Behavior, Animal--drug effects--DE;  
Circadian Rhythm--physiology--PH; Cyclic AMP--metabolism--ME; Dopamine  
--metabolism--ME; **Drosophila** melanogaster; Drug Tolerance--physiology--PH  
Chemical Name: **Cocaine** ; Dopamine; Cyclic AMP; Ethanol

9/3,K/3 (Item 3 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)  
(c) format only 2005 Dialog. All rts. reserv.

12282127 PMID: 9593105

**Activating properties of cocaine and cocaethylene in a behavioral  
preparation of Drosophila melanogaster.**

Torres G; Horowitz J M  
Department of Psychology, State University of New York at Buffalo, 14260,  
USA. gtorres@acsu.buffalo.edu  
Synapse (New York, N.Y.) (UNITED STATES) Jun 1998, 29 (2) p148-61,  
ISSN 0887-4476 Journal Code: 8806914  
Publishing Model Print  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: MEDLINE; Completed

**Activating properties of cocaine and cocaethylene in a behavioral  
preparation of Drosophila melanogaster.**

The use of **Drosophila** as a model to study the behavioral consequences of stimulant drugs was analyzed in an active preparation of decapitated **Drosophila**. Application of **cocaine** and cocaethylene to discrete nerve cord cells regulating motor programs of **behavior** produced striking patterns of behavioral activity in a concentration-related manner. In general, intense circling **behavior** and significant wing buzzing activity were distinguishable behavioral markers in flies treated with mM concentrations of **cocaine** or cocaethylene. The significant changes in motor **behavior** induced by stimulant drugs in decapitated flies were not reproduced by the application of apomorphine, a direct dopamine (DA) agonist, or octopamine, a naturally occurring transmitter in arthropods. Because both **cocaine** and cocaethylene interfere with DA reuptake in mammals, we characterized the role of DA receptors mediating increased stereotypy and motor **behavior** in flies. Coadministration of SCH-23390, a specific D1 receptor antagonist, significantly attenuated the **behavior**

-activating properties of **cocaine** and cocaethylene in this active experimental preparation. Therefore, the receptor protein mediating the behavioral responses to stimulant drugs in **Drosophila** is pharmacologically similar to the mammalian D1 subtype. In rats, **cocaine** - and cocaethylene-induced behavioral activity is complex, with increasing evidence that the D1 receptor interacts significantly with N-methyl-D-aspartate (NMDA) receptor pathways to produce an **altered** behavioral phenotype. To further characterize additional receptor subtypes targeted by the actions of **cocaine** and cocaethylene, we pretreated flies with MK-801 and dextromethorphan. Both of these drugs are potent, selective noncompetitive NMDA receptor antagonists. Interestingly, MK-801 and dextromethorphan profoundly reduced the **behavior** -activating properties of **cocaine** and cocaethylene in **Drosophila**. Therefore, as in rats, the NMDA (and D1) receptor pathways in this arthropod represent obligatory targets for the behavioral effects of stimulant drugs.

Descriptors: \*Behavior, Animal--drug effects--DE; \* **Cocaine** --analogs and derivatives--AA; \*Dopamine Uptake Inhibitors--pharmacology--PD; \* **Drosophila** melanogaster--physiology--PH; Adrenergic alpha-Agonists --pharmacology--PD; Animals; **Cocaine** --pharmacology--PD; Dopamine Agonists --pharmacology--PD; Microscopy, Electron, Scanning; Motor Activity--drug effects--DE; Nervous System--drug effects--DE; Nervous System --ultrastructure--UL; Receptors, Dopamine...

Chemical Name: Adrenergic alpha-Agonists; Dopamine Agonists; Dopamine Uptake Inhibitors; Receptors, Dopamine D1; **Cocaine** ; cocaethylene  
?

| Set | Items  | Description   |
|-----|--------|---|
| S1  | 169845 | (DROSOPHILA) OR (FRUIT (W) (FLY OR FLIES))  |
| S2  | 399    | S1 AND ((NEUROACTIVE (W) DRUG) OR PSYCHOSTIMULANT OR COCAINE OR NICOTINE OR STRYCHNINE OR PENTYLENETETRAZOL OR TETRAETHYLAMMONIUM OR (LITHIUM (W) CARBONATE)) |
| S3  | 3      | S2 AND (GEOTAXIS OR GEOTATIC)   |
| S4  | 2      | RD (unique items)   |
| S5  | 0      | S2 AND (EPIGENETIC OR EPIGENETICALLY OR INHERITABLE OR INHERITABLY)   |
| S6  | 0      | S2 AND ((PARENT OR GRAND) (W) PROGENIES)  |
| S7  | 56040  | (BEHAVIOR OR LOCOMOTOR) (S) (ALTERED OR CHANGE)   |
| S8  | 8      | S7 AND S2   |
| S9  | 3      | RD (unique items)   |

?

#### COST

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21sep05 13:56:17 User259876 Session D800.2
$2.18      0.641 DialUnits File155
$0.88      4 Type(s) in Format 3
$0.88      4 Types
$3.06 Estimated cost File155
$0.55      0.176 DialUnits File159
$0.55 Estimated cost File159
$3.86      0.654 DialUnits File5
$0.16      1 Type(s) in Format 95 (KWIC)
$0.16      1 Types
$4.02 Estimated cost File5
$13.39     1.260 DialUnits File73
$13.39 Estimated cost File73
OneSearch, 4 files, 2.731 DialUnits FileOS
$2.66 INTERNET
$23.68 Estimated cost this search
$24.58 Estimated total session cost 2.959 DialUnits

```